RAW SEQUENCE LISTING   DATE: 10/12/2004
PATENT APPLICATION: **US/10/701,007**   TIME: 15:02:16

Input Set : **A:\ISIS5325.ST25.txt**
Output Set: **N:\CRF4\10122004\J701007.raw**

```
 3 <110> APPLICANT: Allerson, Charles
 4       Bhat, Balkrishen
 5       Eldrup, Anne B.
 6       Manoharan, Muthiah
 7       Griffey, Richard H.
 8       Baker, Brenda F.
 9       Swayze, Eric E.
11 <120> TITLE OF INVENTION: COMPOSITIONS COMPRISING ALTERNATING 2'-MODIFIED NUCLEOSIDES FOR
12       USE IN GENE MODULATION
14 <130> FILE REFERENCE: ISIS-5325
16 <140> CURRENT APPLICATION NUMBER: US 10/701,007
17 <141> CURRENT FILING DATE: 2003-11-04
19 <150> PRIOR APPLICATION NUMBER: US 60/423,760
20 <151> PRIOR FILING DATE: 2002-11-05
22 <160> NUMBER OF SEQ ID NOS: 55
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 19
28 <212> TYPE: RNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Synthetic Construct
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40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Synthetic Construct
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52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
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63 <211> LENGTH: 19
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Input Set : **A:\ISIS5325.ST25.txt**
Output Set: **N:\CRF4\10122004\J701007.raw**

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68  <223> OTHER INFORMATION: Synthetic Construct
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76  <212> TYPE: DNA
77  <213> ORGANISM: Artificial Sequence
79  <220> FEATURE:
80  <223> OTHER INFORMATION: Synthetic Construct
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85  <222> LOCATION: (1)..(3)
86  <223> OTHER INFORMATION: 2'-O-methoxyethyl
88  <220> FEATURE:
89  <221> NAME/KEY: misc_feature
90  <222> LOCATION: (13)..(20)
91  <223> OTHER INFORMATION: 2'-O-methoxyethyl
93  <400> SEQUENCE: 5
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99  <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Synthetic Construct
106 <220> FEATURE:
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108 <222> LOCATION: (1)..(5)
109 <223> OTHER INFORMATION: 2'-O-methoxyethyl
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <222> LOCATION: (16)..(20)
114 <223> OTHER INFORMATION: 2'-O-methoxyethyl
116 <400> SEQUENCE: 6
117 gtgcgcgcga gcccgaaatc                                       20
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122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Synthetic Construct
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130 <221> NAME/KEY: misc_feature
131 <222> LOCATION: (1)..(5)
132 <223> OTHER INFORMATION: 2'-O-methoxyethyl
134 <220> FEATURE:
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RAW SEQUENCE LISTING   DATE: 10/12/2004
PATENT APPLICATION: **US/10/701,007**   TIME: 15:02:16

Input Set : **A:\ISIS5325.ST25.txt**
Output Set: **N:\CRF4\10122004\J701007.raw**

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146 <213> ORGANISM: Artificial Sequence
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149 <223> OTHER INFORMATION: Synthetic Construct
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153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (1)..(1)
155 <223> OTHER INFORMATION: 2'-O-methyl
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (1)..(20)
160 <223> OTHER INFORMATION: phosphorothioate linkages
162 <220> FEATURE:
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164 <222> LOCATION: (3)..(3)
165 <223> OTHER INFORMATION: 2'-O-methyl
167 <220> FEATURE:
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169 <222> LOCATION: (5)..(5)
170 <223> OTHER INFORMATION: 2'-O-methyl
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174 <222> LOCATION: (7)..(7)
175 <223> OTHER INFORMATION: 2'-O-methyl
177 <220> FEATURE:
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179 <222> LOCATION: (9)..(9)
180 <223> OTHER INFORMATION: 2'-O-methyl
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184 <222> LOCATION: (11)..(11)
185 <223> OTHER INFORMATION: 2'-O-methyl
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189 <222> LOCATION: (13)..(13)
190 <223> OTHER INFORMATION: 2'-O-methyl
192 <220> FEATURE:
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194 <222> LOCATION: (15)..(15)
195 <223> OTHER INFORMATION: 2'-O-methyl
197 <220> FEATURE:
198 <221> NAME/KEY: misc_feature
199 <222> LOCATION: (17)..(17)
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RAW SEQUENCE LISTING   DATE: 10/12/2004
PATENT APPLICATION: **US/10/701,007**   TIME: 15:02:16

Input Set : **A:\ISIS5325.ST25.txt**
Output Set: **N:\CRF4\10122004\J701007.raw**

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204 <222> LOCATION: (19)..(19)
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214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Synthetic Construct
220 <220> FEATURE:
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222 <222> LOCATION: (1)..(20)
223 <223> OTHER INFORMATION: phosphorothioate linkages
225 <220> FEATURE:
226 <221> NAME/KEY: misc_feature
227 <222> LOCATION: (2)..(2)
228 <223> OTHER INFORMATION: 2'-O-methyl
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (4)..(4)
233 <223> OTHER INFORMATION: 2'-O-methyl
235 <220> FEATURE:
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237 <222> LOCATION: (6)..(6)
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243 <223> OTHER INFORMATION: 2'-O-methyl
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247 <222> LOCATION: (10)..(10)
248 <223> OTHER INFORMATION: 2'-O-methyl
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252 <222> LOCATION: (12)..(12)
253 <223> OTHER INFORMATION: 2'-O-methyl
255 <220> FEATURE:
256 <221> NAME/KEY: misc_feature
257 <222> LOCATION: (14)..(14)
258 <223> OTHER INFORMATION: 2'-O-methyl
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262 <222> LOCATION: (16)..(16)
263 <223> OTHER INFORMATION: 2'-O-methyl
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RAW SEQUENCE LISTING   DATE: 10/12/2004
PATENT APPLICATION: **US/10/701,007**   TIME: 15:02:16

Input Set : **A:\ISIS5325.ST25.txt**
Output Set: **N:\CRF4\10122004\J701007.raw**

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267 <222> LOCATION: (18)..(18)
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276 uuugucucug guccuuacuu                                          20
279 <210> SEQ ID NO: 10
280 <211> LENGTH: 20
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284 <220> FEATURE:
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289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (1)..(1)
291 <223> OTHER INFORMATION: 2'-O-methyl
293 <220> FEATURE:
294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (1)..(20)
296 <223> OTHER INFORMATION: phosphodiester linkages
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (3)..(3)
301 <223> OTHER INFORMATION: 2'-O-methyl
303 <220> FEATURE:
304 <221> NAME/KEY: misc_feature
305 <222> LOCATION: (5)..(5)
306 <223> OTHER INFORMATION: 2'-O-methyl
308 <220> FEATURE:
309 <221> NAME/KEY: misc_feature
310 <222> LOCATION: (7)..(7)
311 <223> OTHER INFORMATION: 2'-O-methyl
313 <220> FEATURE:
314 <221> NAME/KEY: misc_feature
315 <222> LOCATION: (9)..(9)
316 <223> OTHER INFORMATION: 2'-O-methyl
318 <220> FEATURE:
319 <221> NAME/KEY: misc_feature
320 <222> LOCATION: (11)..(11)
321 <223> OTHER INFORMATION: 2'-O-methyl
323 <220> FEATURE:
324 <221> NAME/KEY: misc_feature
325 <222> LOCATION: (13)..(13)
326 <223> OTHER INFORMATION: 2'-O-methyl
328 <220> FEATURE:
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/12/2004
PATENT APPLICATION: US/10/701,007   TIME: 15:02:17

Input Set : **A:\ISIS5325.ST25.txt**
Output Set: **N:\CRF4\10122004\J701007.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:53; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20

VERIFICATION SUMMARY　　　　　　　　DATE: 10/12/2004
PATENT APPLICATION: **US/10/701,007**　　　TIME: 15:02:17

Input Set : **A:\ISIS5325.ST25.txt**
Output Set: **N:\CRF4\10122004\J701007.raw**

L:4640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0